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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/695,089	10/25/2000	Takeshi Maeda	500.37445CX1	2432	
20457 75	590 10/03/2002				
	TERRY STOUT AND	EXAMINER			
	SEVENTEENTH STREET	CHU, KIM KWOK			
ARLINGTON,	VA 22209	ART UNIT	PAPER NUMBER		
		2653			
			DATE MAILED: 10/03/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No. Applicant(s)		A			
1		09/695,089	MAEDA ET AL.	$\mathcal{O}$			
Office Action Summary		Examiner	Art Unit				
		Kim-Kwok CHU	2653				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHC THE M - Extens after S - If the p - If NO - Failure - Any re earned Status	PRTENED STATUTORY PERIOD FOR REPIDIALING DATE OF THIS COMMUNICATION is soft ime may be available under the provisions of 37 CFR 1 (1X) (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statuply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, ply within the statutory minimur d will apply and will expire SIX ( te, cause the application to bec ng date of this communication,	may a reply be timely filed  n of thirty (30) days will be considered tim 8) MONTHS from the mailing date of this ome ABANDONED (35 U.S.C. § 133). even if timely filed, may reduce any	ely. communication.			
1)⊠	Responsive to communication(s) filed on An						
2a) <u></u>	,	his action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>7-16 and 19</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>7-16 and 19</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.						
8)□ ( Application	Claim(s) are subject to restriction and/ on Papers	or election requirement	nt.				
9)□ T	he specification is objected to by the Examin	er.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
, -	a)⊠ All b)□ Some * c)□ None of:						
	1.⊠ Certified copies of the priority documer						
	2. Certified copies of the priority documer						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14)□ A	cknowledgment is made of a claim for domes	stic priórity under 35 U	.S.C. § 119(e) (to a provision	al application).			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment	(s)						
2) X Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 No	erview Summary (PTO-413) Paper Nice of Informal Patent Application (Per:				
U.S. Patent and Tra PTO-326 (Rev		Action Summary	Part	of Paper No. 9			

## Claim Objections

- 1. Claims 7 and 8 are objected to because of the following informalities:
- (a) in claim 7, line 2, the term "disk-like" should be changed to --disk-shape--;
- (b) similarly, in claim 7, line 3, the term "disk-like" should be changed to --disk-shape--;
- (c) in addition, in claim 8, line 2, the term "disk-like" should be changed to --disk-shape--; and
- (d) furthermore, in claim 8, line 3, the term "disk-like" should be changed to --disk-shape--.

Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7, 9-16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuji (U.S. Patent 6,310,846) in view of Lee (U.S. Patent 6,241,524).

Fuji teaches a recording medium having elements and means very similar to that of the instant invention. For example, Fuji teaches the following:

- (a) as in claim 7, a disk-shaped substrate 40 (Fig. 4);
- (b) as in claim 7, at least one track being provided on the substrate (Fig. 6al);
- (c) as in claim 7, a zone including at least one track
  (Fig. 8; a recording zone/area is an inherent feature of the recording medium 1); and
- (d) as in claim 7, the zone stores a lookup table 57 (Fig.
  2; column 4, lines 28-33).

However, Fuji does not teach the following:

(a) as in claims 7, 9-16 and 19, the lookup table includes a list of values about the wave form data of a recording pulse.

Lee teaches a look up table 2 which stores a list of pulse formation values such as pulse widths, length and intervals (Fig. 6; column 7, lines 54-64).

As in claims 7, 9-16 and 19, a look-up table as a form of data stored in a recording medium such as Applicant's and Fuji's is considered as a non-functional descriptive material. And it is obvious to store any type of data such as Applicant's and Fuji's non-functional descriptive material on a disk.

With respect to the type of data in a look-up table, for example, Lee uses a look up table to store non-functional

descriptive material such as a list of predetermined values of pulse widths, lengths and intervals etc. When there is a motivation of determining a predetermined shape of pulse/mark length, it would have been obvious to one of ordinary skill in the art at the time of invention to store Lee's mark length values in a look up table such as Fuji's, because the values of the mark length can be obtained instantly without going through a calculation process.

Furthermore, since Fuji stores a mark control pattern in his disk region 57, it would have been obvious to one of ordinary skill in the art to use a disk region similar to 57 as a look up table instead of Lee's RAM type lookup table, because hardware such as a RAM/ROM is not needed.

4. Claim 8 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed above.

5. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231 Or faxed to:

(703) 872-9314 (for formal communications intended for entry. Or:

(703) 746-6909, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim CHU whose telephone number is (703) 305-3032 between 9:30 am to 6:00 pm, Monday to Friday.

Kc 8/18/02

Kim-Kwok CHU Examiner AU2653 September 19, 2002

(703) 305-3032

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